

Virginia Division of Consolidated Laboratory Services

SULFATE ION IN WATER by ASTM D 516-07					
Facility Name: _____ VELAP ID _____					
Assessor Name: _____ Analyst Name: _____ Inspection Date _____					
Relevant Aspect of Standards	Method Reference	Y	N	N/A	Comments
Records Examined: SOP Number/ Revision/ Date _____ Analyst: _____					
Sample ID: _____ Date of Sample Preparation: _____ Date of Analysis: _____					
Was insoluble suspended matter removed from samples prior to testing?	6.1				
Was the spectrophotometer or filter photometer used at 420 nm, and did it have a light path of 4 to 5 cm?	7.1.2 7.1.3				
Were Barium Chloride crystals desiccated for 24 hours prior to use?	8.3				
Were new calibration curves prepared when cells, lamps, or filters were changed on instruments?	10.1 Note-1				
Were turbid samples filtered through a 0.45 µm membrane prior to analysis?	11.1				
Were samples stirred for exactly 1-minute after the addition of a spoonful of BaCl <sub>2</sub> crystals?	11.5				
Were the turbidities of samples measured at 30-second intervals for 4 minutes, and the maximum reading recorded?	11.6				
When interferences were suspected, were diluted samples analyzed to determine if sulfate concentrations were in proportion with dilutions?	11.8				
When samples contained color, were blanks analyzed without the addition barium chloride?	11.7				
Were calibration correlation coefficients equal to or greater than 0.990?	14.1.1				
Were calibration blanks analyzed at the end of each run batch?	14.1.1				
Were instrument check standards analyzed at a frequency of 10% to fall between 80 and 120% of true value?	14.1.2				
Were laboratory control samples analyzed at a minimum of 10%?	14.1.4				
Notes/Comments:					